

[Title of Document] Abstract

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[Object] The invention provides a UWB repeater preferably applied to a relay of stream data, which does not require frequency conversion and has less delay in relay.

[Solution Means] The UWB repeater 2 includes a receiving antenna 21, a receiver 22, a transmitter 23, a transmitting antenna 24, and a relay controller 25. The relay controller 25 is provided with a switch unit 26, a delay 27, and a transmitting/receiving timing controller 28. UWB pulse signals demodulated by the receiver 22 are power-amplified by the transmitter 23 and transmitted after being delayed by the delay unit 27 for timing that does not overlap the receiving timing. The transmitting/receiving timing controller 28 turns on the switch unit 26 during the period of pulse receiving timing and enables a relay of the receiving pulses, and turns off the switch unit 26 during the period of relaying of pulses, and can prevent sneak path signals between the transmitting side and the receiving side.

[Selective Drawing] Fig. 4